

**Product Name :**  
Automotive Ignition and Charging System

**Product Code :**  
NLAB-MECHANICALAB20011



**Description :**

Automotive Ignition and Charging System

**Technical Specification :**

This trainer is designed to teach students principles of Ignition system used in modern vehicle through comprehensive practical activities. The activities include semiconductor familiarization, transistor basic circuit, contact breaker ignition, wasted spark ignition, electronic ignition systems, spark plugs, and alternator charging systems.

The trainer is neatly laid out to represent the typical automobile ignition systems with distributor model, ignition coils, ignition circuit, alternator model, spark plugs model, camshaft and crankshaft sensor circuit and part of engine control unit (related to ignition system).

The unit should contains a circuit board with electronics components and micro-controller systems, system diagrams, power supply, electrical test leads, and student experiment manual presented in hard copy and pdf format.

The experiment exercise starts with relevant theory of engine ignition and charging systems and proceed to practical activities using the circuit board, multimeter and oscilloscope for observation, measurement and troubleshooting. Multimeter and oscilloscope is as an optional item. Manual provided, must clearly show the following educational Objectives are met.

**Accessories:**

Experiment manual.

Power cord.

**Include Additional Items:**

Computer Aided Instruction software which should be compatible with Class Room Management System. The CAI contains theory, presentation, workshop job-sheet and student activities with assessment questions.

Digital Multimeter

## Naugralabequipments

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